COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY SESSION 0.21 0.21

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=> file ca

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

0.06 0.27

FULL ESTIMATED COST

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FILE COVERS 1907 - 29 Jan 2004 VOL 140 ISS 6 FILE LAST UPDATED: 29 Jan 2004 (20040129/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s daptomycin

L1 217 DAPTOMYCIN

=> d 11

L1 ANSWER 1 OF 217 CA COPYRIGHT 2004 ACS on STN

AN 140:73794 CA

TI In vitro activities of daptomycin, vancomycin, quinupristin-dalfopristin, linezolid, and five other antimicrobials against 307 gram-positive anaerobic and 31 Corynebacterium clinical isolates. [Erratum to document cited in CA138:201573]

AU Goldstein, Ellie J. C.; Citron, Diane M.; Merriam, C. Vreni; Warren, Yumi A.; Tyrrell, Kerrin L.; Fernandez, Helen T.

CS R. M. Alden Research Laboratory, Santa Monica, CA, 90404, USA

SO Antimicrobial Agents and Chemotherapy (2003), 47(4), 1486 CODEN: AMACCQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

LA English

=> s l1 and crystalline 62287 CRYSTALLINE L2 0 L1 AND CRYSTALLINE

=> s ll and purification

l and purification 290320 PURIFICATION

=> d 13 an ab

- L3 ANSWER 1 OF 5 CA COPYRIGHT 2004 ACS on STN
- AN 137:252960 CA
- AB The present invention provides a rapid and inexpensive method for extractively isolating acidic lipopeptide antibiotics in high yield and purity. Biochem. synthesis of laspartomycin is disclosed comprising culture of Streptomyces viridochromogenes, extraction of laspartomycin, contacting an aqueous solution of this antibiotic and a calcium chloride with an butanol, thereby extracting the lipopeptide antibiotic into the organic solvent; and contacting the organic solvent extract of the lipopeptide antibiotic with acid solution to isolate laspartomycin (yield = 79%).

=> d 13 2-4 an ab

- L3 ANSWER 2 OF 5 CA COPYRIGHT 2004 ACS on STN
- AN 137:108390 CA
- AF A rapid and inexpensive method for extractively isolating acidic lipopeptide antibiotics from a fermentation broth or a culture in high yield and purity is described. The lipopeptide antibiotics, which can be cyclic depsipeptides or cyclic peptides, are extracted by contacting an aqueous solution of the lipopeptide antibiotic and a divalent metal ion with an organic solvent, and then contacting the organic solvent extract of the lipopeptide antibiotic with acid. Alternatively, an acidic lipopeptide antibiotic is partitioned from an aqueous solution into an organic solvent and is then recovered from the organic solvent. For example, laspartomycin (as Na salt) was isolated from fermentation broth using CaCl2, 1-butanol, and pH adjustment with 1N HCl and 1N NaOH.
- L3 ANSWER 3 OF 5 CA COPYRIGHT 2004 ACS on STN
- AN 133:318707 CA
- Daptomycin binding proteins (DBPs) are membrane proteins which AB act as daptomycin targets. Daptomycin is a cyclic lipopeptide antibiotic which is active against Gram-pos. bacteria and was shown to be the first inhibitor of lipoteichoic acid (LTA) synthesis. It was found that the antibiotic did not penetrate the bacterial cytoplasm but bound membranes with a non-covalent bond and in particular some proteins which were called DBPs. DBPs were indicated as enzymes involved in LTA synthesis whose binding and inhibition by daptomycin is responsible for the observed effect on bacterial LTA synthesis. The purification of DBPs will make it possible not only to shed light on the biosynthesis of the cell wall polymer but will also provide innovative targets for selection of new antibacterial compds. In this study, the purification of DBPs is described. Affinity chromatog, was used with daptomycin as the ligand. Final elution of DBPs from daptomycin-coupled resin was performed using either 0.1% SDS or 3 M NaCl. Polyacrylamide gel electrophoresis of the eluted protein fractions consistently showed four protein bands (ranging from 55 to 66 kDa) in denaturing conditions and two protein bands (60 and 66 kDa) in non-denaturing conditions. Isoelectrofocusing anal. of the same sample consistently revealed two bands with pIs around 5. That these purified proteins were really the desired DBPs is demonstrated by the retention of daptomycin -binding capability they displayed.
- L3 ANSWER 4 OF 5 CA COPYRIGHT 2004 ACS on STN
- AN 118:55106 CA
- AB Echinocandin B deacylase is purified. It may be used to deacylate echinocandin B and aculeacin. The enzyme was purified from Actinoplanes utahensis by a series of column chromatog. steps. The enzyme was a heterodimer with subunits of 18 and 63 kDa. Its activity is unaffected by cofactors, metal chelators, and sulfhydryl agents.